

Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Inline, Bus coupler, INTERBUS, F-SMA connector, 45° angled FO connection, transmission speed in the local bus: 500 kbps, degree of protection: IP20, including Inline connector and labeling field

Product Description

The bus coupler connects an Inline station to the INTERBUS remote bus and provides the supply voltages for the connected analog modules.

Why buy this product

- Remote bus connections using fiber optic technology
- Optical path diagnostics



Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 894658
GTIN	4017918894658
Weight per Piece (excluding packing)	329.800 g
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
-------------------------	---

Dimensions

Width	85 mm
Height	119.8 mm
Depth	71.5 mm

Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	75 % ... 85 %
Permissible humidity (storage/transport)	75 % ... 85 %
Air pressure (operation)	80 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

General

Mounting type	DIN rail
Net weight	210 g
Note on weight specifications	without plug

Interfaces

Designation	INTERBUS
No. of channels	2
Connection method	F-SMA connector
Note on the connection method	slanted
Transmission speed	500 kbps
Transmission physics	FO
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

System limits of the bus coupler

Number of local bus devices that can be connected	max. 63
Number of devices with parameter channel	62
Number of supported branch terminals with remote bus branch	max. 15

Inline potentials

Designation	Bus coupler supply U_{BC} ; Communications power U_L (7.5 V) and the analog supply U_{ANA} (24 V) are generated from the bus coupler supply.
Supply voltage	24 V DC (via Inline connector)
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Current consumption	typ. 90 mA (without connected Inline I/O terminals) max. 1.25 A (with max. number of connected I/O terminal blocks)
Designation	Communications power (U_L)
Supply voltage	7.5 V DC $\pm 5\%$
Power supply unit	max. 2 A DC (observe derating)
Designation	Supply of analog modules (U_{ANA})

Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

Technical data

Inline potentials

Supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (including all tolerances, including ripple)
Power supply unit	max. 0.5 A DC (observe derating)

Electrical isolation

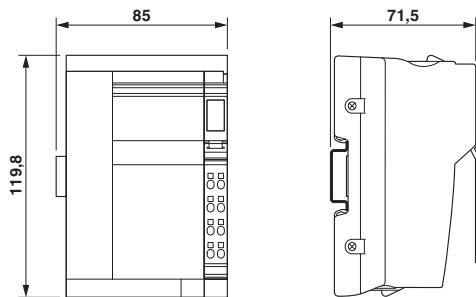
Test section	7.5 V communications power, 24 V analog supply, 24 V bus coupler supply/functional earth ground 500 V AC 50 Hz 1 min.
--------------	---

Environmental Product Compliance

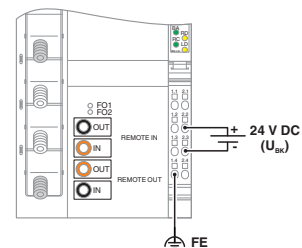
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Dimensional drawing



Connection diagram



Classifications

eCl@ss

eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27242608
eCl@ss 6.0	27242608
eCl@ss 7.0	27242608
eCl@ss 8.0	27242608
eCl@ss 9.0	27242608

ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604

Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

Classifications

ETIM

ETIM 4.0	EC001604
ETIM 5.0	EC001604
ETIM 6.0	EC001604

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	32151602

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC		EAC-Zulassung
-----	--	---------------

Accessories

Accessories

End block

End clamp - E/UK - 1201442



End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

Bus coupler - IBS IL 24 BK-LK/45-PAC - 2862165

Accessories

Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



Plug

Inline connector - IB IL SCN-8-CP - 2727608



Inline connector, colored

Terminal marking

Insert strip - ESL 62X10 - 0809492



Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems: Laser printer, mounting type: insert, lettering field size: 62 x 10 mm